IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Yu et al.	OIPE		
Application N	o.: 10/038,517	APR 1 9 2002 SS		
Filed:	01/03/02	TE-OF WALK CLE	Group Art U	nit: 1621
Title: Encoding the	-	e and Polynucleotides	Examiner:	To Be Assigned
Attorney Docl	ket No.: LEX-0293-U	J SA		
Commissioner Washington, D Box DD	.C. 20231	TION DISCLOSURE S	STATEMENT	æ ~ <u></u>
Dear Sir:				2002 1600/2
This Inf	ormation Disclosure	Statement is submitted:	:	
(V ap las	plication; or before m st) der 37 CFR 1.97(c) to Certification under a \$240.00 fee unde	f filing national applicanaling date of first office ogether with either a: 37 CFR 1.97(e), or 37 CFR 1.17(p), or 7(b) time period, but be	ce action on the	f entry of international e merits; whichever occu
	a petition under 37 a \$130.00 petition	237 CFR 1.97(e), and CFR 1.97(d)(2)(ii), and fee set forth in 37 CFR tion or notice of allowa	1.17(i)(1).	er occurs first, but before
X Applica	nt(s) submit herewith	Form PTO 1449-Infor	mation Disclos	sure Citation together wit

copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s)

believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

April 16, 2002

Date

Lance K. Ishimoto

Reg. No. 41,866

LEXICON GENETICS INCORPORATED (281) 863-3333

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of

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Complete if Known **Application Number** 10/038,517 01/03/02 Filing Date **First Named Inventor** Yu Group Art Unit 1621 Examiner Name To be assigned LEX-0293-USA Attorney Docket Number

	APR	- 1002		U.S. PATENT DOCUMEN	TS	
Examiner Initials*	No. 2 /	U.S. Patent	Document Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	4,215,051		Schroeder et al	07/29/80	
	AB	4,376,110		David et al	03/08/83	
	AC	4,594,595		Struckman	06/10/86	
	AD	4.631,211		Houghten	12/23/86	
	AE	4,689,405		Frank et al	08/25/87	
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	AM	5,459,127		Felgner et al	10/17/95	
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	AX	6,110,490		Thierry	08/29/00	
	AY	6,150,584		Kucherlapati et al.	11/21/00	
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INFORMATION	י חופי	CLOSURE	Application Number	10/038,517		
ATATEMENTS		DUSUNE	Filing Date	01/03/02		
STATEMENT\E	SY AF	PLICANI	First Named Inventor	Yu		
APR 9 2002 (use as many sheets as necessary)			Group Art Unit	1621		
			Examiner Name	To be assigned		
Sheek 7/6 1/2 2	of	3	Attorney Docket Number	LEX-0293-USA		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	—
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	ΑZ	Bird et al, 1988, "Single-Chain Antigen-Binding Proteins", Science 242:423-426.	
	ВА	Bitter et al, 1987, "Expression and Secretion Vectors for Yeast", Methods in Enzymology 153:516-544.	
	вв	Colbere-Garapin et al, 1981, "A New Dominant Hybrid Selective Marker for Higher Eukaryotic Cells", J. Mol. Biol. 150:1-14.	
	BC	Gautier et al, 1987, "α-DNA IV:α-anomeric and β-anomeric tetrathymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physiochemical properties and poly (rA) binding", Nucleic Acids Research 15(16):6625-6641.	
-	BD	Gordon, 1989, "Transgenic Animals", International Review of Cytology, 115:171-229.	
	BE	Greenspan et al, 1993, "Idiotypes: structure and immunogenicity", FASEB Journal 7:437-444.	
	BF	Gu et al, 1994, "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting", Science 265:103-106.	
	BG	Huse et al, 1989, "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", Science 246:1275-1281.	
	ВН	Huston et al, 1988, "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxins ingle-chain Fv analogue produced in Escherichia coli", Proc. Natl. Acad. Sci. USA 85:5879-5883.	
	ВІ	Inoue et al, 1987, "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and R Nase FEBS Letters 215(2):327-330.	Γ
	BJ	Inoue et al, 1987, "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides Nucleic Acids Research 15(15):6131-6149.	
	ВК	Inouye & Inouye, 1985, "Up-promoter mutations in the lpp gene of Escherichia coli", Nucleic Acids Research 1993):31	ſ
-	BL	Janknecht et al, 1991, "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus", PNAS 88:8972-8976.	T
	ВМ	Kohler & Milstein, 1975, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature 256:495-497.	
	BN	Lakso et al, 1992, "Targeted oncogene activation by site-specific recombination in transgenic mice", Proc. Natl. Acad. Sci. USA 89:6232-6236.	
	во	Lavitrano et al, 1989, "Sperm Cells as Vectors for Introducing Foreign DNA into Eggs: Genetic Transformation of Mice", Cell 57:717-723.	
	BP	Lo, 1983, "Transformation by Iontophoretic Microinjection of DNA: Multiple Integrations without Tandem Insertions", Mol. Cell. Biology 3(10):1803-1814.	
	BQ	Logan et al, 1984, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection", Proc. Natl. Acad. Sci. USA 81:3655-3659.	
	BR	Lowy et al, 1980, "Isolation of Transforming DNA: Cloning the Hamster aprt Gene", Cell 22:817-823.	

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Substitute for form 1449B.PTO				Complete if Known			
INFO	NOTAME	אפור	CLOSURE	Application Number	10/038,517		
		/ A F	DUCANT	Filing Date	01/03/02		
STATEMENT BY APPLICANT			PLICANT	First Named Inventor	Yu		
	APR 1 9 2002 %			Group Art Unit	1621		
APR 1 9 2002 (ise as many sheets as necessary)				Examiner Name	To be assigned		
Sheet 3				Attorney Docket Number	LEX-0293-USA		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
	BS	Morrison et al, 1984, "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", Proc. Natl. Acad. Sci. USA 81:6851-6855.	
	ВТ	Mulligan & Berg, 1981, "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase", Proc. Natl. Acad. Sci. USA 78(4):2072-2076.	
	ΒU	Neuberger et al, 1984, "Recombinant antibodies possessing novel effector functions", Nature 312:604-608.	
	в٧	Nisonoff, 1991, "Idiotypes: Concepts and Applications", J. of Immunology 147:2429-2438.	
	BW	O'Hare et al, 1981, "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase", Proc. Natl. Acad. Sci. USA 78(3):1527-1531.	
	вх	Ruther et al, 1983, "Easy identification of cDNA clones", EMBO Journal 2(10):1791-1794.	
	BY	Santerre et al, 1984, "Expression of prokaryotic genes for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells", Gene 30:147-156.	
	BZ	Sarin et al, 1988, "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", Proc. Natl. Acad. Sci. USA 85:7448-7451.	
	CA	Smith et al, 1983, "Molecular Engineering of the Autographa californica Nuclear Polyhedrosis Virus Genome: Deletion Mutations within the Polyhedrin Gene", J. Virol. 46(2):584-593.	
	СВ	Stein et al, 1988, "Physiochemical properties of phosphorothioate oligodeoxynucleotides", Nucleic Acids Research 16(8):3209-3221.	
	СС	Szybalska & Szybalski, 1962, "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait", Proc. Natl. Acad. Sci. USA 48:2026-2034.	
	CD	Takeda et al, 1985, "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences", Nature 314:452-454.	
	CE	Thompson et al, 1989, "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targetin in Embryonic Stem Cells", Cell 56:313-321.	9
	CF	Van Der Putten et al, 1985, "Efficient insertion of genes into the mouse germ line via retroviral vectors", Proc. Natl. Acad. Sci. USA 82:6148-6152.	
	CG	Van Heeke et al, 1989, "Expression of Human Asparagine Synthetase in Escherichia coli", J. Biol. Chemetry 264(10):5503-5509. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	
	СН	Ward et al, 1989, "Binding activities of a repertoire of single immunoglobulin variable domains secreted by Expherichia coli", Nature 341:544-546.	
	CI	Wigler et al, 1977, "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells —Cell 1★223-242	
	CJ	Wigler et al, 1980, "Transformation of mammalian cells with an amplifiable dominant-acting gene", Pro Natl. Read. 54. USA 77(6):3567-3570.	
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